Method of Test For

DETERMINATION OF THE COMPACTION FACTOR OF BASE MATERIAL

LDH DESIGNATION: TR 419-63

Scope

1. This method of test is intended for determining the ratio of the loss in volume due to compaction.

Procedure

2. (a) Determine the average of the loose and dense unit weights in accordance with LDH Designation TR-417.

(b) Compute the dry weight of the average unit weight found in step (a).

(c) Determine the maximum dry density in accordance with LDH Designation TR-418.

(d) Compute the compaction factor: Divide the maximum dry density, Step (c), by the dry weight of the average mixture found in step (b).

Calculations

3. $$\text{Compaction factor} = \frac{\text{Maximum dry density}}{\text{Dry weight of mixture}}$$

$$\text{Compaction factor} = \frac{138.0}{101.5} = 1.36$$

Normal testing time is 3 days.